

Evaluating Rational Expressions Worksheet Answers

Evaluate each equation with the given values.

1. $-3x+4$ where $x = -5$

$$\begin{aligned} &= -3(-5)+4 \\ &= 15+4 \\ &= 19 \end{aligned}$$

2. $2xy + y$ where $x = 6, y = -2$

$$\begin{aligned} &= 2(6)(-2) + (-2) \\ &= -24 - 2 \\ &= -26 \end{aligned}$$

3. $\frac{x^2 - 4}{3x}$ where $x = 5$

$$\begin{aligned} &= \frac{(5)^2 - 4}{3(5)} \\ &= \frac{25 - 4}{15} \\ &= \frac{21}{15} = \frac{7}{5} \end{aligned}$$

4. $\frac{2ab}{c}$ where $a = -1, b = -4, c = 2$

$$\begin{aligned} &= \frac{2(-1)(-4)}{2} \\ &= \frac{8}{2} \\ &= 4 \end{aligned}$$